

10/642,754

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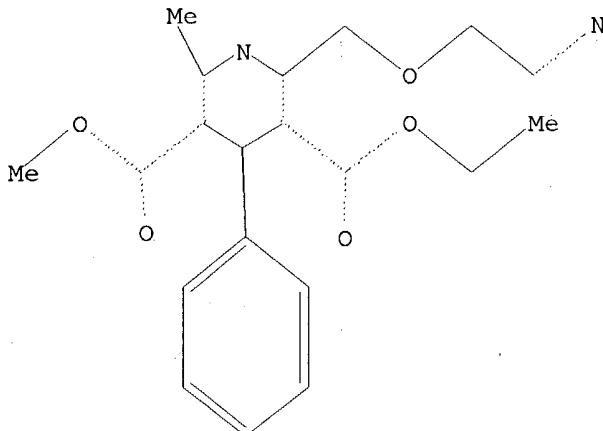
FILE COVERS 1907 - 26 May 2004 VOL 140 ISS 22
FILE LAST UPDATED: 25 May 2004 (20040525/ED)

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L1

STR



Structure attributes must be viewed using STN Express query preparation.

L3 612 SEA FILE=REGISTRY SSS FUL L1
L4 1411 SEA FILE=CAPLUS L3
L5 1 SEA FILE=CAPLUS L4 AND PYROGLUTAMATE

=> d 15 ibib abs hitstr

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:157497 CAPLUS
DOCUMENT NUMBER: 140:199208
TITLE: Preparation of amlodipine pyroglutamic acid salts with improved stability and solubility.

INVENTOR(S): Youn, Yong Sik; Cho, Seong Hwan; Park, Choong Sil;
 Kim, Yun Cheul; Lim, Dong Kwon; Jung, Sung Hak; Lee, Sung Hak; Kang, Hyun Suk; Park, Kyung Mi; Jung, Yun Taek; Kim, Young Hoon; Yeon, Kyu Jeong; Chae, Myeong Yun; Jin, Hae Tak; Suh, Hea Ran; Lee, Kwang Hyeg; Lee, Hyuk Koo

PATENT ASSIGNEE(S): CJ Corporation, S. Korea

SOURCE: Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1391453	A1	20040225	EP 2003-18653	20030820
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2004018426	A1	20040304	WO 2003-KR1677	20030821
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2004131483	A2	20040430	JP 2003-297765	20030821

PRIORITY APPLN. INFO.: KR 2002-49422 A 20020821

AB A pyroglutamic acid salt of amlodipine is claimed. Thus, amlodipine in EtOAc was treated with (S)-pyroglutamic acid at 25.degree. followed by stirring for 1 h to give 95.3% amlodipine (S)-**pyroglutamate**. The latter showed improved stability on storage relative to the besylate, tosylate, and hydrochloride salts.

IT 663180-17-4P 663180-18-5P 663180-19-6P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of amlodipine pyroglutamic acid salts with improved stability and solv.)

RN 663180-17-4 CAPLUS

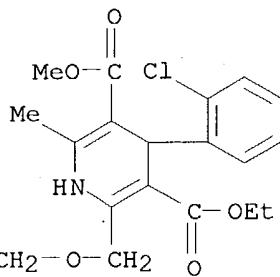
CN L-Proline, 5-oxo-, compd. with 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 88150-42-9

CMF C20 H25 Cl N2 O5

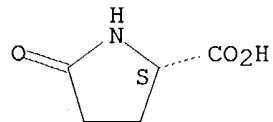
10/642,754



CM 2

CRN 98-79-3
CMF C5 H7 N O3

Absolute stereochemistry. Rotation (-).

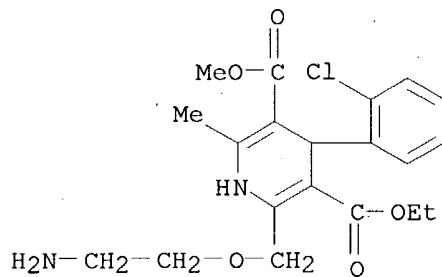


RN 663180-18-5 CAPLUS

CN D-Proline, 5-oxo-, compd. with 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate (1:1)
(9CI) (CA INDEX NAME)

CM 1

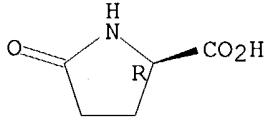
CRN 88150-42-9
CMF C20 H25 Cl N2 O5



CM 2

CRN 4042-36-8
CMF C5 H7 N O3

Absolute stereochemistry. Rotation (+).



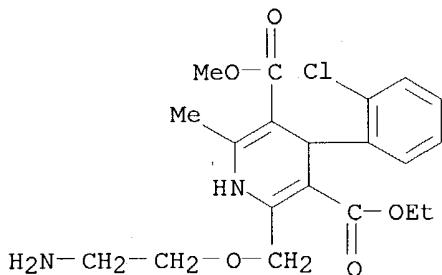
RN 663180-19-6 CAPLUS

CN Proline, 5-oxo-, compd. with 3-ethyl 5-methyl 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-3,5-pyridinedicarboxylate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 88150-42-9

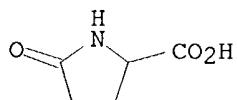
CMF C20 H25 Cl N2 O5



CM 2

CRN 149-87-1

CMF C5 H7 N O3



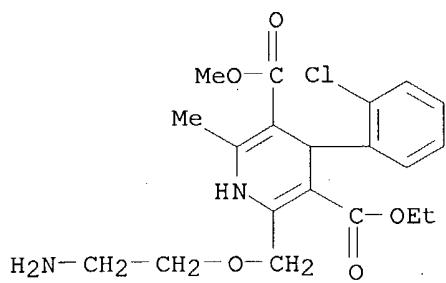
IT 88150-42-9, Amlodipine

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of amlodipine pyroglutamic acid salts with improved stability
and solv.)

RN 88150-42-9 CAPLUS

CN 3,5-Pyridinedicarboxylic acid, 2-[(2-aminoethoxy)methyl]-4-(2-chlorophenyl)-1,4-dihydro-6-methyl-, 3-ethyl 5-methyl ester (9CI) (CA INDEX NAME)

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REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT